

We claim:

1. A conductive film comprising a flexible support, an extensible metal or metal alloy layer, and a crosslinked polymeric protective layer, wherein the film has at least one permanently deformed curved region.
- 5 2. A film according to claim 1, wherein the metal or metal alloy layer is substantially continuous, and the at least one permanently deformed curved region is compound curved.
3. A film according to claim 2, wherein the film is light transmissive.
4. A film according to any of claims 1, 2, or 3, wherein the metal or metal alloy layer comprises silver and the crosslinked polymeric layer comprises an acrylate polymer.
- 10 5. A film according to any of claims 1, 2, or 3, comprising two or more metal or metal alloy layers.
6. A film according to claim 5, wherein the layers are separated by a crosslinked polymeric spacing layer and provide an infrared-rejecting Fabry-Perot stack.
7. A film according to any of claims 1, 2, or 3, wherein an interface between the  
15 metal or metal alloy layer and an adjacent layer within the film has been subjected to an adhesion-enhancing treatment, or one or more adjacent layers within the film comprise an adhesion-enhancing adjuvant, whereby the corrosion resistance of the film is increased.
8. A film according to any of claims 1, 2, or 3, having a length and an  
20 electromagnetic shielding capability that is retained when the film is strained in a tensile mode by 5% of its length.
9. A film according to any of claims 1, 2, or 3, having a length and an  
electromagnetic shielding capability that is retained when the film is strained in a tensile mode by 10% of its length.
10. A film according to any of claims 1, 2, or 3, having an electromagnetic shielding  
25 capability that is retained when the film is bent at a 45° angle.

11. A film according to any of claims 1, 2, or 3, that exhibits color-shifting behavior when viewed from different viewing angles.

12. A film according to any of claims 1, 2, or 3, further comprising at least one planar region.

5 13. A film according to any of claims 1, 2, or 3, further comprising a thermoplastic supplemental support.

14. An electrical device comprising the film of any of claims 1, 2, or 3.

15. The device of claim 14, wherein the device is selected from the group consisting of a cell phone, a personal digital assistant, a computer, and combinations thereof.

10 16. The device of claim 14, wherein the device comprises a heater.

17. A method for forming an article comprising:

a) providing a preform comprising a thermoplastic support having a metal or metal alloy layer and a crosslinked polymeric protective layer;

15 b) molding, embossing, thermoforming or otherwise deforming the preform to provide a self-supporting article having at least one permanently deformed curved region.

18. A method according to claim 17, wherein the metal or metal alloy layer is substantially continuous, and the at least one permanently deformed curved region is compound curved.

20 19. A method according to claim 18, wherein the metal or metal alloy layer and the crosslinked polymeric protective layer are light transmissive.

20. A method according to any of claims 17, 18, or 19, wherein the metal or metal alloy layer comprises silver and the crosslinked polymeric layer comprises an acrylate polymer.

25 21. A method according to any of claims 17, 18, or 19, wherein the preform comprises two or more metal or metal alloy layers.

22. A method according to any of claims 17, 18, or 19, wherein the deforming is carried out by vacuum molding.

23. A method according to any of claims 17, 18, or 19, wherein the deforming is carried out by thermoforming.

5 24. A method according to any of claims 17, 18, or 19, wherein the deforming is carried out by embossing.

25. A method according to any of claims 17, 18, or 19, wherein the formed article has a length and an electromagnetic shielding capability that is retained when the article is strained in a tensile mode by 5% of its length.

10 26. A method according to any of claims 17, 18, or 19, wherein the formed article has an electromagnetic shielding capability that is retained when the article is bent at a 45° angle.

15 27. A method according to any of claims 17, 18, or 19, wherein the perform has a first surface resistivity, wherein the deforming strains the article in a tensile mode by at least 5% of its length, and wherein the formed article has a second surface resistivity that is not substantially degraded relative to the first surface conductivity.

28. A method according to claim 27, wherein the second surface resistivity is no more than two times the first surface resistivity.

20 29. A method according to claim 27, wherein the second surface resistivity is less than the first surface resistivity.

30. A method according to claim 19, wherein perform has a first amount of haze, wherein the deforming strains the article in a tensile mode by at least 5% of its length, and wherein the formed article has a second amount of haze that is not substantially degraded relative to the first amount of haze.

25 31. A method according to claim 30, wherein the first and second amounts of haze are both below 5%, 3%, or 2%.